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713.clas.	31118

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 US Patents Full-Text Database  
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### Search History

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L25: Entry 11 of 16

File: USPT

Feb 28, 2006

US-PAT-NO: 7007166

DOCUMENT-IDENTIFIER: US 7007166 B1

TITLE: Method and system for digital watermarking

DATE-ISSUED: February 28, 2006

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Moskowitz; Scott A.	Miami	FL		US
Cooperman; Marc	Palo Alto	CA		US

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Wistaria Trading, Inc.	Miami	FL		US	02

APPL-NO: 09/545589 [PALM]

DATE FILED: April 7, 2000

## RELATED-US-APPL-DATA:

continuation parent-doc US 08674726 00 19960702 PENDING child-doc US 09545589

## INT-CL-ISSUED:

TYPE	IPC	DATE	IPC-OLD
IPCP	H04L9/00	20060101	H04L009/00

## INT-CL-CURRENT:

TYPE	IPC	DATE
CIPP	H04 L 9/00	20060101

US-CL-ISSUED: 713/176; 713/168, 380/46

US-CL-CURRENT: 713/176; 380/46, 713/168

FIELD-OF-CLASSIFICATION-SEARCH: 713/176, 713/168, 380/46

See application file for complete search history.

## PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

  

PAT-NO

ISSUE-DATE

PATENTEE-NAME

US-CL

<input type="checkbox"/>	<u>4038596</u>	July 1977	Lee	
<input type="checkbox"/>	<u>4200770</u>	April 1980	Hellman et al.	
<input type="checkbox"/>	<u>4218582</u>	August 1980	Hellman et al.	
<input type="checkbox"/>	<u>4405829</u>	September 1983	Rivest et al.	
<input type="checkbox"/>	<u>4424414</u>	January 1984	Hellman et al.	
<input type="checkbox"/>	<u>4748668</u>	May 1988	Shamir et al.	
<input type="checkbox"/>	<u>4789928</u>	December 1988	Fujisaki	
<input type="checkbox"/>	<u>4908873</u>	March 1990	Philibert et al.	
<input type="checkbox"/>	<u>4979210</u>	December 1990	Nagata et al.	
<input type="checkbox"/>	<u>4980782</u>	December 1990	Ginkel	
<input type="checkbox"/>	<u>5073925</u>	December 1991	Nagata et al.	
<input type="checkbox"/>	<u>5243515</u>	September 1993	Lee	
<input type="checkbox"/>	<u>5287407</u>	February 1994	Holmes	
<input type="checkbox"/>	<u>5319735</u>	June 1994	Preuss et al.	
<input type="checkbox"/>	<u>5363448</u>	November 1994	Koopman et al.	713/170
<input type="checkbox"/>	<u>5365586</u>	November 1994	Indeck et al.	
<input type="checkbox"/>	<u>5379345</u>	January 1995	Greenberg	
<input type="checkbox"/>	<u>5394324</u>	February 1995	Clearwater	
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<input type="checkbox"/>	<u>5412718</u>	May 1995	Narasimhalu et al.	
<input type="checkbox"/>	<u>5428606</u>	June 1995	Moskowitz	
<input type="checkbox"/>	<u>5487168</u>	January 1996	Geiner et al.	
<input type="checkbox"/>	<u>5493677</u>	February 1996	Balogh et al.	
<input type="checkbox"/>	<u>5530759</u>	June 1996	Braudaway et al.	
<input type="checkbox"/>	<u>5568570</u>	October 1996	Rabbani	
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<input type="checkbox"/>	<u>5636292</u>	June 1997	Rhoads	
<input type="checkbox"/>	<u>5640569</u>	June 1997	Miller et al.	
<input type="checkbox"/>	<u>5659726</u>	August 1997	Sandford, II et al.	
<input type="checkbox"/>	<u>5664018</u>	September 1997	Leighton	
<input type="checkbox"/>	<u>5687236</u>	November 1997	Moskowitz et al.	
<input type="checkbox"/>	<u>5734752</u>	March 1998	Knox	
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<input type="checkbox"/>	<u>5748783</u>	May 1998	Rhoads	382/232
<input type="checkbox"/>	<u>6330672</u>	December 2001	Shur	713/176

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ART-UNIT: 2132

PRIMARY-EXAMINER: Barron, Jr.; Gilberto

ASSISTANT-EXAMINER: Lanier; Benjamin E.

ABSTRACT:

A method for applying a digital watermark to a content signal is disclosed. In accordance with such a method, a watermarking key is identified. The watermarking key includes a binary sequence and information describing application of that binary sequence to the content signal. The digital watermark is then encoded within the content signal at one or more locations determined by the watermarking key.

65 Claims, 0 Drawing figures

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L25: Entry 11 of 16

File: USPT

Feb 28, 2006

DOCUMENT-IDENTIFIER: US 7007166 B1

TITLE: Method and system for digital watermarking

Description Paragraph (76):

Bandwidth rights instruments are likely to be highly localized to specific subnets. Especially since certain types of connections may be available only from certain exchanges, and since failure probabilities are likely to vary with specific hardware, operating systems, and service providers. Additionally, the basic valuation equations above do not address telecommunications costs across various types of lines. This problem at least, might be solved by active maintenance of cost tables, designation codes for types of lines, and the designation of a low cost standard. The problem of moving rights between exchanges is made more difficult since supply/demand planning for one exchange will not translate to another, unless some means for interconnecting exchanges is developed, and exchange bandwidth planning is global. The race by many parties to link users to the INTERNET via varying access links (modem) including ISDN, POTS, cable, may further the need for common bandwidth pricing. What is clear is that the basic structure of the present invention would facilitate such planning to the benefit of all market participants: telecoms providers, INTERNET access companies, users and publishers as well as more general aggregators of content and bandwidth such as, phone companies, cable companies and satellite companies intending on providing services across multifarious line types.

**CLAIMS:**

22. The method of claim 19, wherein said one or more references is selected from the group consisting of: a encode/decode algorithm which is capable of encoding and decoding bits of information directly to and from the content signal, a function which relates the sequence of binary numbers to the content signal; a function which assesses the frequency content of the content signal before embedding the at least one watermark; a function which is capable of encrypting and decrypting information contained in the at least one watermark, and a function which embeds into the content signal an informational signal which comprises information about the at least one watermark such that the informational signal may be used to correct any errors that may have been introduced into the at least one watermark.

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L25: Entry 14 of 16

File: USPT

Feb 26, 2002

US-PAT-NO: 6351640

DOCUMENT-IDENTIFIER: US 6351640 B1

TITLE: Initiating a Telecommunications call to a party based on an identifying signal wirelessly transmitted by the party or its proxy

DATE-ISSUED: February 26, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
DeMont; Jason Paul	Basking Ridge	NJ		

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Lucent Technologies, Inc.	Murray Hill	NJ			02

APPL-NO: 08/944387 [PALM]

DATE FILED: October 6, 1997

## PARENT-CASE:

REFERENCE TO RELATED APPLICATION This is a division of application Ser. No. 08/574,059, filed Dec. 15, 1995, now pending.

INT-CL-ISSUED: [07] H04B 1/38, H04Q 7/32

## INT-CL-CURRENT:

TYPE	IPC	DATE
CIPS	H04 Q 7/22	20060101
CIPS	H04 Q 7/38	20060101
CIPN	H04 Q 7/32	20060101

US-CL-ISSUED: 455/426; 455/415, 455/460, 455/536, 455/564, 455/566, 455/575, 455/90, 455/351

US-CL-CURRENT: 455/426.1; 455/351, 455/415, 455/460, 455/556.1, 455/564, 455/566, 455/575.9, 455/90.3

FIELD-OF-CLASSIFICATION-SEARCH: 455/403, 455/414, 455/5, 455/426, 455/460, 455/466, 455/500, 455/517, 455/550, 455/556, 455/564, 455/566, 455/568, 455/569, 455/575, 455/91, 455/95, 455/99, 455/100, 455/227, 343/702

See application file for complete search history.

## PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>4164025</u>	August 1979	Dubnowski et al.	364/900
<u>4922518</u>	May 1990	Gordon et al.	379/57
<u>4939768</u>	July 1990	Inaba et al.	379/58
<u>4980910</u>	December 1990	Oba et al.	379/355
<u>5020150</u>	May 1991	Shannon	455/343
<u>5097502</u>	March 1992	Suzuki et al.	379/356
<u>5117449</u>	May 1992	Metroka et al.	455/552
<u>5214793</u>	May 1993	Conway et al.	455/517 X
<u>5218629</u>	June 1993	Dumond et al.	379/59
<u>5230073</u>	July 1993	Gausmann et al.	395/600
<u>5276729</u>	January 1994	Higuchi et al.	379/58
<u>5280516</u>	January 1994	Jang	379/57
<u>5307349</u>	April 1994	Shloss et al.	370/85.2
<u>5329578</u>	July 1994	Brennan et al.	379/67
<u>5365516</u>	November 1994	Jandrell	370/18
<u>5412654</u>	May 1995	Perkins et al.	370/94.1
<u>5418845</u>	May 1995	Reeder	379/213
<u>5428678</u>	June 1995	Fitzpatrick et al.	379/201
<u>5566358</u>	October 1996	Obayashi et al.	455/435 X
<u>5668559</u>	September 1997	Baro	343/702
<u>5835861</u>	November 1998	Whiteside	455/466

ART-UNIT: 2683

PRIMARY-EXAMINER: Trost; William

ASSISTANT-EXAMINER: Sobutka; Philip J.

ATTY-AGENT-FIRM: DeMont & Breyer, LLC

ABSTRACT:

A method and apparatus for initiating a telecommunications call. A plurality of beacons (102) are geographically disposed in a telecommunications system (100). Each beacon (102n) radiates an electromagnetic carrier that is modulated with an identifying address (e.g., a telephone number, an Internet address) for an associated terminal. An identifying signal is stored in a memory (206). A controller (208) modulates a carrier with the identifying signal and a transmission element (210) transmits the carrier to allow a communications terminal (104) to

initiate a call to the associated communications terminal (114, 116). A wireless terminal (104a) includes a directional receiver (204). To initiate a call, a user points directional receiver (204) at a beacon. The directional receiver (204) receives the electromagnetic carrier and the wireless terminal recovers the identifying address. Wireless terminal (104) then uses the identifying address to initiates a call, in well-known fashion, to the communications terminal associated with the identifying address.

33 Claims, 15 Drawing figures

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L25: Entry 14 of 16

File: USPT

Feb 26, 2002

DOCUMENT-IDENTIFIER: US 6351640 B1

TITLE: Initiating a Telecommunications call to a party based on an identifying signal wirelessly transmitted by the party or its proxy

Brief Summary Text (11):

Alternative embodiments of the invention provide a method and apparatus for initiating a telecommunications call (whether voice, video, data or multimedia) while avoiding many of the costs and restrictions associated with conventional techniques. Specifically, alternative embodiments of the present invention enable the initiation of a telecommunications call to a communication terminal (e.g., a wireless terminal, a wireline terminal, an automatic call distribution system, etc.) based on the reception of an identifying address (e.g., the telephone number, the Internet address) of the communications terminal via a directional receiver.

Detailed Description Text (3):

The illustrative embodiment comprises one or more "beacons" (e.g., beacons 102.sub.1, 102.sub.2, . . . , 102.sub.n). Each beacon 102.sub.i advantageously radiates an electromagnetic carrier that is modulated with data including, among other things, an identifying signal (e.g., a telephone number, an Internet address) of an associated communication terminal that is accessible via telecommunications system 100 and addressable by the identifying signal. Paging transmitter 118 can provide a signal to a beacon to remotely modify, for example, the identifying signal for the beacon as described more fully below. The details of where beacon 102.sub.i is located and what information it radiates will be discussed below.

Detailed Description Text (15):

The operation of wireless terminal 104a is as follows. A user points directional receiver 204 at a beacon to receive the electromagnetic carrier radiated by the beacon. Directional receiver 204 recovers the identifying signal from the electromagnetic carrier and provides the identifying signal to processor 202, in well-known fashion. Processor 202 then provides the identifying signal to radio 208, which uses the identifying signal, in well-known fashion, to initiate a call, via telecommunications system 100, to the communication terminal associated with the identifying address.

Detailed Description Text (40):

To facilitate privacy and restrict the number of users who can receive information radiated by a beacon, the user data, transmissive data and/or identifying signal radiated by a beacon may be encrypted, in well-known fashion. In such cases, processor 202 must be capable of decrypting the encrypted information. Processor 202 may be given the cryptographic key via a keypad or penpad, or via telecommunications system 100.

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L25: Entry 15 of 16

File: USPT

Jan 19, 1999

US-PAT-NO: 5862220

DOCUMENT-IDENTIFIER: US 5862220 A

TITLE: Method and apparatus for using network address information to improve the performance of network transactions

DATE-ISSUED: January 19, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Perlman; Stephen G.	Mountain View	CA		

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
WebTV Networks, Inc.	Mountain View	CA			02

APPL-NO: 08/656923 [PALM]

DATE FILED: June 3, 1996

INT-CL-ISSUED: [06] H04L 9/08, H04L 9/00

## INT-CL-CURRENT:

TYPE IPC	DATE
CIPS H04 M 7/00	20060101
CIPS H04 N 5/00	20060101
CIPN H04 L 29/08	20060101
CIPS H04 L 29/12	20060101
CIPN H04 M 7/12	20060101
CIPN H04 N 7/16	20060101
CIPS H04 L 29/06	20060101
CIPN H04 Q 3/72	20060101
CIPS H04 M 3/487	20060101
CIPS H04 M 3/493	20060101
CIPS H04 N 7/167	20060101

US-CL-ISSUED: 380/21; 380/9, 380/10, 380/49, 380/59

US-CL-CURRENT: 713/162; 348/E5.004, 348/E7.056, 380/251, 380/279, 380/59, 713/155

FIELD-OF-CLASSIFICATION-SEARCH: 380/4, 380/9, 380/21, 380/23, 380/25, 380/49, 380/50, 380/59, 380/10

See application file for complete search history.

PRIOR-ART-DISCLOSED:

## U.S. PATENT DOCUMENTS

  

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>4182933</u>	January 1980	Roseblum	380/21
<u>4852151</u>	July 1989	Dittakavi et al.	379/97
<u>4876717</u>	October 1989	Barron et al.	380/25
<u>4922523</u>	May 1990	Hashimoto	379/96
<u>4975944</u>	December 1990	Cho	379/209
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<u>5341293</u>	August 1994	Vertelney et al.	364/419.17
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<u>5469540</u>	November 1995	Powers, III et al.	395/158
<u>5488411</u>	January 1996	Lewis	348/8
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 Robert Seidman, Article: What Larry and Lou Know (That You Don't), c/net inc., 2 pages, Jan. 29, 1996.  
 Susan Stellin, Article: "The \$500 Web Box: Less is More?" c/net inc., 2 pages, 1996.

ART-UNIT: 276

PRIMARY-EXAMINER: Gregory; Bermarr E.

ATTY-AGENT-FIRM: Workman, Nydegger & Seeley

ABSTRACT:

An apparatus and method for using network address information to improve the performance and increase the functionality of network transactions. is disclosed. In a client network interface device having a processor and a memory coupled to the processor, the memory having stored therein sequences of instructions which when executed by the processor cause the processor to perform the steps of: 1) accessing a first server over a secure data communication line to obtain a client encryption key, 2) accessing a second server over an unsecure data communication line to establish a connection with the second server, 3) encrypting information sent to the second server over the connection using the client encryption key obtained from the first server, and 4) decrypting information received from the second server over the connection using the client encryption key obtained from the first server. The present invention further includes sequences of instructions which when executed by the processor cause the processor to perform the steps of, 1) connecting to an unsecure server over an unsecure data communication line to perform unsecure portions of a data transaction, 2) disconnecting from the unsecure server; and 3) connecting to a secure server over a secure data communication line to perform secure portions of the data transaction.

52 Claims, 16 Drawing figures

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L25: Entry 15 of 16

File: USPT

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TITLE: Method and apparatus for using network address information to improve the performance of network transactions

Abstract Text (1):

An apparatus and method for using network address information to improve the performance and increase the functionality of network transactions. is disclosed. In a client network interface device having a processor and a memory coupled to the processor, the memory having stored therein sequences of instructions which when executed by the processor cause the processor to perform the steps of: 1) accessing a first server over a secure data communication line to obtain a client encryption key, 2) accessing a second server over an unsecure data communication line to establish a connection with the second server, 3) encrypting information sent to the second server over the connection using the client encryption key obtained from the first server, and 4) decrypting information received from the second server over the connection using the client encryption key obtained from the first server. The present invention further includes sequences of instructions which when executed by the processor cause the processor to perform the steps of, 1) connecting to an unsecure server over an unsecure data communication line to perform unsecure portions of a data transaction, 2) disconnecting from the unsecure server; and 3) connecting to a secure server over a secure data communication line to perform secure portions of the data transaction.

Brief Summary Text (3):

This invention is in the field of telecommunications, as it relates to the use of network address information for network transactions.

Brief Summary Text (16):

The present invention is an apparatus and method for using network address information to improve the performance and increase the functionality of network transactions. A client network interface device is disclosed as having a processor and a memory coupled to the processor, the memory having stored therein sequences of instructions which when executed by the processor cause the processor to perform the steps of: 1) accessing a first server over a secure data communication line to obtain a client encryption key, 2) accessing a second server over an unsecure data communication line to establish a connection with the second server, 3) encrypting information sent to the second server over the connection using the client encryption key obtained from the first server, and 4) decrypting information received from the second server over the connection using the client encryption key obtained from the first server. The present invention further includes a client network interface device having a processor and a memory coupled to the processor, the memory having stored therein sequences of instructions which when executed by the processor cause the processor to perform the steps of, 1) connecting to an unsecure server over an unsecure data communication line to perform unsecure portions of a data transaction, 2) disconnecting from the unsecure server; and 3) connecting to a secure server over a secure data communication line to perform secure portions of the data transaction.

CLAIMS:

1. A client network interface device having a processor and a memory coupled to said processor, the memory having stored therein sequences of instructions to be executed by said processor, said instructions comprising:

a first instruction for accessing a first server over a secure data communication line to obtain a client encryption key;

a second instruction for accessing a second server over an unsecure data communication line to establish a connection with said second server;

a third instruction for encrypting information sent to said second server over said connection using said client encryption key obtained from said first server; and

a fourth instruction for decrypting information received from said second server over said connection using said client encryption key obtained from said first server.

2. A first server having a processor and a memory coupled to said processor, the memory having stored therein sequences of instructions to be executed by said processor said instructions comprising:

a first instruction for receiving a request from a client over an unsecure data communication line to establish a connection with said client;

a second instruction for accessing a second server over a secure data communication line to obtain a client encryption key corresponding to said client;

a third instruction for decrypting information received from said client over said connection using said client encryption key obtained from said second server; and

a fourth instruction for encrypting information sent to said client over said connection using said client encryption key obtained from said second server.

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